SEQUENCE LISTING

```
<110> The University of British Columbia et al.
 <120> A PLANT LONG CHAIN FATTY ACID BIOSYNTHETIC ENZYME
 <130> 4810-58563
 <140> NOT YET ASSIGNED
'<141> 2001-03-22
 <150> PCT/CA00/00860
 <151> 2000-07-22
<150> US60/145,013
 <151> 1999-07-22
<160> 5
<170> PatentIn Ver. 2.0
<210> 1
<211> 2509
<212> DNA
<213> Arabidopsis sp.
<400> 1
tgttgtggag gacttgtgag aaccaccacc agagtccgac atcgcgatca cggagtagag 60
aaagtcaaaa ctacttctct cagacggatt agtttggttt gctggagatt gttccaagaa 120
agagaaacgt taggagcaaa caaacaaaag agaaaagacg atgatgactg atgagagctt 180
taacaaaaaa ataaaatgag agagctcaac gggtagaatt gtgagacttg agagagtgtt 240
tcctatttaa ggcatgcgat tagtgtttat tacgagaatg ccaccgaacg agtacatatt 300
aatgtatagt atgttaatga tagtctaact aaaatttggt ttttattgaa atagaatttt 360
gtaagaataa tgaggatctg taatatagct ggatttgcat taaatcgtac gccgttggta 420
atcgaaatta gttaaataaa tgttttagca tataatgttg gtgcttccga catgtttatt 480
ggacaataat accatatttt ttctttggga tcttaaaaaa attgaggaag aaaatagtaa 540
aatagtcaaa cttaggttac atcataatgg gccaattctt tgagttgtga ttgatctcca 600
aagatataca tagatttaca caagatcaaa agaaaaacaa ttgggcctaa accccaagcc 660
catatcaacg tecattatca ttaagattee ttttttett gaaatttgaa aatttgaaat 720
tcgattcaaa tctactctct ctgttttttt cccataaaaa tctgaaaaac cagaagcttc 780
ttcatcactt ttcctcttga tatcttccat tagttggccg atacacatga cgccaaatac 840
atcaatggcg actettetet gttttttagt tatatcaaac teccaeccaa eetgcagaag 900
aaaaaatggt gtctataaac acatcccctt acgatttctt ctctatctct ctcacagtat 960
ctatatatac gcacacaaac ccagattcag tttctcatca gtatcatcaa caaaaatatc 1020
```

gtattttggt aacaagaaag caatgttgat cgcggttctg ctttcgaaca agcctttgga tacggtcagg actcataaag gatctgatga agatgagtgt ttgaaaaccg gagtttctta agctttaaag acgaatatca cttctttgga tctgttcttt gcgacttttg ttgctaagaag cataccggat ttcaagcttg ctttagatca gattgatgag ctagagaaga gtttaaagct gactttgcat agatttggaa acacttccta ggaagctaaa ggaagaatga ggaaaggaaa gtttaagtgt aacagcgcgg tttgggtgga tccttgggaa cattgcatcc atagatatca <210> 2 <211> 20	tcgaaaacga gaacgcattc gtctaaagat g tcctctggtt g attgttcaat a tttctgtatt ttctccaaaa c tagctctata a cagagtttgg	tccaagtata aattgtgtgt cttatggcta cttcctataa gacaagaaga cacgcgggag catgttgagg tggtatgaat cagattgctt	agcttgttca atcaagaaca tagctggaga gcgagcagat agaagcctta gtagagccgt cgtctagaat tggcttacac	1920 1980 2040 2100 2160 2220 2280 2340
<212> DNA				
<213> Arabidopsis sp.				
<400> 2				
gtatcatcaa caaaaatatc				20
<210> 3 <211> 18 <212> DNA <213> Arabidopsis sp.				
<400> 3				
caaagatcga tcttaacc .				18
<210> 4 <211> 18 <212> DNA <213> Arabidopsis sp.		·		20
<400> 4				
cgatcacgga gtagagaa				18
<210> 5 <211> 18 <212> DNA <213> Arabidopsis sp.				
<400> 5				
ggacagtttc taaagcag			1	.8